



EIC 2100  
**SEARCH REQUEST**

RECEIVED  
FEB 07 2008  
CA

**RUSH**

(22)

250773

Today's Date 2/7/08

Name LaShonda Jacobs

Priority App. Filing Date 5/28/1999

AU/Org. 2157 Examiner # 79462

Case/App. # 09/583,301

Bld.&Rm.# Rm 4A31 Phone 2-4004

**Format for Search Results**

EMAIL \_\_\_\_\_ PAPER ☒

If this is a Board of Appeals case, check here ☐

Synonyms \_\_\_\_\_

Describe this invention in your own words. Business Method Template Search

Terms to avoid \_\_\_\_\_

**Additional Comments**

Please submit completed form to your EIC. SPE Signature here indicates Rush

**STIC USE ONLY**

Searcher BWIMS

Date Completed 8-12-08

Phone 2-2528

Sources \_\_\_\_\_

# STIC Search Results Feedback Form

**EIC 2100**

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Alyson Dill, EIC 2100 Team Leader  
272-3527, RND 4B28

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 2133

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(Journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2100 RND, 4B28

Set	Items	Description
S1	306398	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK? OR FILE? OR REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-MS OR RDBMS
S2	2022	S1(5N)((EQUATE? OR EQUATING OR CORRESPOND? OR RECOGNI? OR IDENT? OR SQUARE? OR SQUARING OR MATE? ? OR ALIGN?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S3	1500	S1(5N)((RELAT? OR MATCH??? ? OR RECONCIL? OR COORDINAT? OR COMPLY? OR COMPLIAN? OR RESOL? OR CORRELAT?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S4	379667	(MULTI? OR PLURAL? OR SEVERAL? OR ANOTHER OR GROUP? OR BUNCH? OR MANY) (3N)(USER? OR CLIENT? OR CUSTOMER? OR SUBSCRIBER? OR MEMBER? OR ACCOUNT()HOLDER? OR ENDUSER? OR END()USER? ? OR PATRON? OR OPERAT? OR INDIVIDUAL? OR PERSON? ? OR ENTIT??? ?)
S5	90878	S4(3N)(USE? ? OR USING OR UTILI? OR APPLY? OR APPLIE? ? OR EMPLOY? OR IMPLEMENT? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR ENABL?)
S6	133652	(DIFFEREN? OR OTHER? OR ANOTHER? OR DISSIMILAR OR DISPARAT-?) (3N)(COMPUTER? OR CLIENT??? OR DESKTOP?? OR PC OR WORKSTATION? OR WORK()STATION? OR TERMINAL? OR PLATFORM? OR LAPTOP? OR PDA? ? OR PERSONAL(2N)ASSIST? OR WIRELESS(2N)DEVICE?)
S7	5257	S6(5N)(WHILE OR ALONG() "WITH" OR SIMULTAN? OR STILL OR DURING OR DESPITE OR CONCURRENT?)
S8	59	S2:S3 AND S4:S5 AND S6:S7
S9	15	S8 AND PY=1978:1999
S10	30	S8 AND AY=1978:1999 AND AC=US
S11	31	S9:S10

File 350:Derwent WPIX 1963-2008/UD=200810

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File 347:JAPIO Dec 1976-2007/Oct(Updated 080129)

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11/69,K/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0012772696 - Drawing available  
WPI ACC NO: 2002-626769/200267  
XRPX Acc No: N2002-495686

**Database access control method for in-memory database system, involves giving accessing new database record if record entry corresponding to new database record exists in look-aside table**

Patent Assignee: BERKOWITZ B T (BERK-I); CHRISTOFFERSON P A (CHRI-I);  
MEIN G (MEIN-I); MICROSOFT CORP (MICT); SIMHADRI S (SIMH-I)  
Inventor: BERKOWITZ B T; CHRISTOFFERSON P A; MEIN G; SIMHADRI S

**Patent Family** (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020087500	A1	20020704	US 1998135917	A	19980818	200267 B
US 6457021	B1	20020924	US 1998135917	A	19980818	200271 E

Priority Applications (no., kind, date): US 1998135917 A 19980818

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020087500	A1	EN	28	13	

#### Alerting Abstract US A1

NOVELTY - A record entry is created in a look-aside table, when a process updates a database, and the updated database record is preserved. The new database record is accessed, if a record entry corresponding to the new database record exists in the look-aside table.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

1. Recorded medium storing look-aside table structure; and
2. Database consistency maintaining method.

USE - For controlling database access in in-memory database system.

ADVANTAGE - The database system enables multiple concurrent read-only access to database records through unique versioning scheme based on look-aside table associated with modifying transactions.

DESCRIPTION OF DRAWINGS - The figure shows the database access control system.

**Title Terms/Index Terms/Additional Words:** DATABASE; ACCESS; CONTROL; METHOD ; MEMORY; SYSTEM; NEW; RECORD; ENTER; CORRESPOND; EXIST; ASIDE; TABLE

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0017/30 A I R 20060101

G06F-0017/30 C I R 20060101

US Classification, Issued: 707001000, 707201000, 707200000, 707008000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B4M; T01-S03

**Original Publication Data by Authority**

**Claims:**

...any original database record affected by the update; and giving a process access to a **new database** record created by **the update** if a record entry **corresponding** to the new **database record** exists in the look-aside table for the process.

...

...In a computer having a **plurality** of **client** processes, a portion of memory shared by the client processes, said shared memory being directly addressable by each **of** the **client** processes, and a **plurality** of database records stored in the shared memory, a computerized method for in-memory database records **management** to control access **of** said **client** processes to the database records in shared memory such that an individual client process has access exclusive of **other client processes** to uncommitted modifications made by the individual client process to any of the database records in shared memory, **the method** comprising: creating a look-aside table for each client process; creating a new database record...

...has the record entry, then permitting the client process to access the new database record, **otherwise** permitting the **client** process to access the original database record. Basic Derwent Week: 200267

Set	Items	Description
S1	53	AU=(SELIGER R? OR SELIGER, R?)
S2	14	(ROBERT OR BOB) (2N)SELIGER
S3	592661	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK? OR FILE? OR REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DBMS OR RDBMS
S4	3873	S3(5N)((EQUATE? OR EQUATING OR CORRESPOND? OR RECOGNI? OR IDENT? OR SQUARE? OR SQUARING OR MATE? ? OR ALIGN?) (5N) (UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S5	3505	S3(5N)((RELAT? OR MATCH??? ? OR RECONCIL? OR COORDINAT? OR COMPLY? OR COMPLIAN? OR RESOL? OR CORRELAT?) (5N) (UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S6	1	S1:S2 AND S4:S5
S7	285749	(EQUATE? OR EQUATING OR CORRESPOND? OR RECOGNI? OR IDENT? - OR SQUARE? OR SQUARING OR MATE? ? OR ALIGN?) (5N) (UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
S8	277001	(RELAT? OR MATCH??? ? OR RECONCIL? OR COORDINAT? OR COMPLY? OR COMPLIAN? OR RESOL? OR CORRELAT?) (5N) (UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
S9	115673	(COMMON? OR PREVALEN? OR REGULAR? OR CONSPICUOUS? OR POPULAR? OR BASIC OR STANDARD? OR UBIQUIT?) (3N) (SOFTWARE? OR SOFTWARE? OR CODE? OR PROGRAM? OR FILE? OR APPLICATION? OR APP? - ?)
S10	8572	S9(5N) (RECEIV? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOAD? OR PULL???()DOWN?? OR GET? ? OR RETRIEV? OR ACCESS?)
S11	1	S1:S2 AND S7:S8 AND S10
S12	1	S11 NOT S6
File 350:Derwent WPIX 1963-2008/UD=200810 (c) 2008 The Thomson Corporation		
File 347:JAPIO Dec 1976-2007/Oct(Updated 080129) (c) 2008 JPO & JAPIO		
File 348:EUROPEAN PATENTS 1978-2007/ 200806 (c) 2008 European Patent Office		
File 349:PCT FULLTEXT 1979-2008/UB=20080131UT=20080124 (c) 2008 WIPO/Thomson		

*ALL H-10V Pat. files*

12/5,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01265267

**CONTEXT MANAGEMENT SERVER APPLIANCE**  
**SERVER ZUM VERWALTEN VON KONTEXTINFORMATION**  
**DISPOSITIF SERVEUR DE GESTION CONTEXTUELLE**

**PATENT ASSIGNEE:**

Sentillion, Inc., (3139220), 300 Brickstone Square, Andover, MA 01810,  
(US), (Proprietor designated states: all)

**INVENTOR:**

**SELIGER, Robert**, 10 Sanborn Street, Winchester, MA 01890, (US)

**LEGAL REPRESENTATIVE:**

HOFFMANN EITLE (101511), Patent- und Rechtsanwälte Arabellastrasse 4,  
81925 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1224536 A2 020724 (Basic)  
EP 1224536 B1 051221  
WO 2001011464 010215

APPLICATION (CC, No, Date): EP 2000936432 000530; WO 2000US14942 000530

PRIORITY (CC, No, Date): US 136670 P 990528; US 139235 P 990614

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-009/00

CITED PATENTS (EP B): EP 459912 A; EP 540151 A; EP 803808 A; WO 91/12583 A;  
WO 95/03580 A; GB 2305087 A; GB 2305747 A; GB 2323458 A

**CITED REFERENCES (EP B):**

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RESEARCH CENTER SEEKING VISUAL INTEGRATION OF HEALTHCARE APPLICATIONS"  
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1999 (1999-02-19), XP002154047 Retrieved from the Internet:  
<URL:http://www.visualintegration.org/about/press/021999.html>  
retrieved on 2000-11-22!;

**NOTE:**

No A-document published by EPO

**LEGAL STATUS (Type, Pub Date, Kind, Text):**

Application: 010411 A2 International application. (Art. 158(1))  
Application: 010411 A2 International application entering European  
phase  
Application: 020724 A2 Published application without search report  
Examination: 020724 A2 Date of request for examination: 20011228  
Examination: 030521 A2 Date of dispatch of the first examination  
report: 20030408  
Grant: 051221 B1 Granted patent  
Change: 060607 B1 Title of invention (German) changed: 20060607  
Change: 060607 B1 Title of invention (English) changed: 20060607  
Change: 060607 B1 Title of invention (French) changed: 20060607

Change: 060705 B1 Title of invention (German) changed: 20060705  
Change: 060705 B1 Title of invention (English) changed: 20060705  
Change: 060705 B1 Title of invention (French) changed: 20060705  
Change: 060816 B1 Title of invention (German) changed: 20060816  
Change: 060816 B1 Title of invention (English) changed: 20060816  
Change: 060816 B1 Title of invention (French) changed: 20060816  
Change: 060823 B1 Title of invention (German) changed: 20060823  
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Change: 060906 B1 Title of invention (German) changed: 20060906  
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Change: 060920 B1 Title of invention (German) changed: 20060920  
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Change: 061129 B1 Title of invention (French) changed: 20061129  
Change: 061220 B1 Title of invention (German) changed: 20061220  
Change: 061220 B1 Title of invention (English) changed: 20061220  
Change: 061220 B1 Title of invention (French) changed: 20061220  
Change: 070214 B1 Title of invention (German) changed: 20070214  
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Change: 070829 B1 Title of invention (German) changed: 20070829  
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Change: 071107 B1 Title of invention (German) changed: 20071107  
Change: 071107 B1 Title of invention (English) changed: 20071107  
Change: 071107 B1 Title of invention (French) changed: 20071107

LANGUAGE (Publication,Procedural,Application): English; English; English

# FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200551	1106
CLAIMS B	(German)	200551	1002
CLAIMS B	(French)	200551	1450
SPEC B	(English)	200551	3196
Total word count - document A			0
Total word count - document B			6754
Total word count - documents A + B			6754

## INVENTOR:

**SELIGER , Robert ,**

...SPECIFICATION for context management of a plurality of applications, including a context manager implementation and several **application** implementations. **Common** content data are **accessed** by the application implementations to uniformly effect the behaviour or operation of the multiple health...

...user has a way of controlling it, and so that applications have a way of **coordinating** their behaviour as the context **changes** . Context data are implemented by the common clinical context manager and are used by the...  
?



6/69,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0007759289 - Drawing available

WPI ACC NO: 1996-384082/199638

Concurrent update coordination method for medical information database  
- involves entering first and second data value at first and second work  
stations without locking either station during data entry

Patent Assignee: HEWLETT-PACKARD CO (HEWP)

Inventor: BRAUNSTEIN A S; EHRHARDT F W; SELIGER R

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 5546580	A	19960813	US 1994228490	A	19940415	199638 B

Priority Applications (no., kind, date): US 1994228490 A 19940415

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5546580	A	EN	19	11		

#### Alerting Abstract US A

The method for coordinating updates to a medical data base involves entering a first data value for a record in a medical database at a first work station and a second data value for the record at the record at a second work station. The work stations are permitted to access the record in the medical database during data entry into the record at the other work station.

The data values are stored in the record in the database after the completion of data entry for the record at the work stations. The data values are stored in dependant of the order in which they are entered at the work stations. A correction history is recorded for the record containing information as to the update of the record with the first and second update values.

USE/ADVANTAGE - Uses correction history to resolve confusion resulting from concurrent charting of information by different users.

Title Terms/Index Terms/Additional Words: CONCURRENT; UPDATE; COORDINATE;  
METHOD; MEDICAL; INFORMATION; DATABASE; ENTER; FIRST; SECOND; DATA; VALUE  
; WORK; STATION; LOCK

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0019/00 A I R 20060101

G06F-0019/00 C I R 20060101

US Classification, Issued: 395600000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-H07C; T01-J05B; T01-M02A1

Concurrent update coordination method for medical information database

#### Original Titles:

Method and apparatus for coordinating concurrent updates to a medical  
information database .

...Inventor: SELIGER R

Alerting Abstract ...The method for coordinating updates to a medical data base involves entering a first data value for a record in a medical database at a...

**Original Publication Data by Authority**

Inventor name & address:

... Seliger, Robert

**Original Abstracts:**

A method for coordinating updates to a medical database in a medical information system permits concurrent charting from different workstations and medical instruments. A first data value for...

**Claims:**

What is claimed is: A method for coordinating updates to a medical database in a medical information system, the method comprising the steps of: <br>entering a first data value for a record in said medical...

?

Set	Items	Description
S1	286263	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK? OR FILE? OR REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-MS OR RDBMS
S2	1851	S1(5N)((EQUATE? OR EQUATING OR CORRESPOND? OR RECOGNI? OR IDENT? OR SQUARE? OR SQUARING OR MATE? ? OR ALIGN?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S3	2005	S1(5N)((RELAT? OR MATCH??? ? OR RECONCIL? OR COORDINAT? OR COMPLY? OR COMPLIAN? OR RESOL? OR CORRELAT?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S4	417623	(MULTI? OR PLURAL? OR SEVERAL? OR ANOTHER OR GROUP? OR BUNCH? OR MANY) (3N)(USER? OR CLIENT? OR CUSTOMER? OR SUBSCRIBER? OR MEMBER? OR ACCOUNT()HOLDER? OR ENDUSER? OR END()USER? ? OR PATRON? OR OPERAT? OR INDIVIDUAL? OR PERSON? ? OR ENTIT??? ?)
S5	115218	S4(3N)(USE? ? OR USING OR UTILI? OR APPLY? OR APPLIE? ? OR EMPLOY? OR IMPLEMENT? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR ENABL?)
S6	195658	(DIFFEREN? OR OTHER? OR ANOTHER? OR DISSIMILAR OR DISPARAT-?) (3N)(COMPUTER? OR CLIENT??? OR DESKTOP?? OR PC OR WORKSTATION? OR WORK()STATION? OR TERMINAL? OR PLATFORM? OR LAPTOP? OR PDA? ? OR PERSONAL(2N)ASSIST? OR WIRELESS(2N)DEVICE?)
S7	10643	S6(5N)(WHILE OR ALONG()"WITH" OR SIMULTAN? OR STILL OR DURING OR DESPITE OR CONCURRENT?)
S8	82	S2:S3(100N)S4:S5(100N)S6:S7
S9	16	S8 AND PY=1978:1999
S10	41	S8 AND (AC=US OR AC=US/PR) AND AY=1978:1999
S11	48	S9:S10
S12	16	S11(100N)COORDINAT?(3N)UPDAT?
S13	32	S11 NOT S12
S14	172327	(EQUATE? OR EQUATING OR CORRESPOND? OR RECOGNI? OR IDENT? - OR SQUARE? OR SQUARING OR MATE? ? OR ALIGN?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
S15	166990	(RELAT? OR MATCH??? ? OR RECONCIL? OR COORDINAT? OR COMPLY? OR COMPLIAN? OR RESOL? OR CORRELAT?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
S16	88842	(COMMON? OR PREVALEN? OR REGULAR? OR CONSPICUOUS? OR POPULAR? OR BASIC OR STANDARD? OR UBIQUIT?) (3N)(SOFTWARE? OR SOFT(-)WARE? OR CODE? OR PROGRAM? OR FILE? OR APPLICATION? OR APP? - ?)
S17	5345	S16(5N)(RECEIV? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOAD? OR PULL???()DOWN?? OR GET? ? OR RETRIEV? OR ACCESS?)
S18	209	S14:S15(100N)S4:S5(100N)S16:S17
S19	209	S18(100N)S14:S15(25N)S4:S5(25N)S16:S17
S20	207	S19(50N)S14:S15(10N)S4:S5(10N)S16:S17
S21	56	S20(50N)S14:S15(10N)S4:S5(10N)S17
S22	33	S21 NOT (ACCENTUR? OR AC()PROPERT? OR ANDERSEN()CONSULT?)
S23	5	S22 AND PY=1978:1999
S24	10	S22 AND (AC=US OR AC=US/PR) AND AY=1978:1999
S25	11	S23:S24
S26	5	S25 NOT S8

File 348:EUROPEAN PATENTS 1978-2007/ 200806

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File 349:PCT FULLTEXT 1979-2008/UB=20080131UT=20080124

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*Full Text Pat.  
files*

Set	Items	Description
S1	1247749	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK? OR FILE? OR REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-MS OR RDBMS
S2	833	S1(5N)((EQUATE? OR EQUATING OR CORRESPOND? OR RECOGNI? OR IDENT? OR SQUARE? OR SQUARING OR MATE? ? OR ALIGN?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S3	2025	S1(5N)((RELAT? OR MATCH??? ? OR RECONCIL? OR COORDINAT? OR COMPLY? OR COMPLIAN? OR RESOL? OR CORRELAT?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?))
S4	426646	(MULTI? OR PLURAL? OR SEVERAL? OR ANOTHER OR GROUP? OR BUNCH? OR MANY) (3N)(USER? OR CLIENT? OR CUSTOMER? OR SUBSCRIBER? OR MEMBER? OR ACCOUNT()HOLDER? OR ENDUSER? OR END()USER? ? OR PATRON? OR OPERAT? OR INDIVIDUAL? OR PERSON? ? OR ENTIT??? ?)
S5	67589	S4(3N)(USE? ? OR USING OR UTILI? OR APPLY? OR APPLIE? ? OR EMPLOY? OR IMPLEMENT? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR ENABL?)
S6	142066	(DIFFEREN? OR OTHER? OR ANOTHER? OR DISSIMILAR OR DISPARAT-?) (3N)(COMPUTER? OR CLIENT??? OR DESKTOP??? OR PC OR WORKSTATION? OR WORK()STATION? OR TERMINAL? OR PLATFORM? OR LAPTOP? OR PDA? ? OR PERSONAL(2N)ASSIST? OR WIRELESS(2N)DEVICE?)
S7	3650	S6(5N)(WHILE OR ALONG() "WITH" OR SIMULTAN? OR STILL OR DURING OR DESPITE OR CONCURRENT?)
S8	0	S2:S3 AND S4:S5 AND S6:S7
S9	2829	S2:S3
S10	28	S9 AND COORDINAT?(3N)UPDAT?
S11	18	RD (unique items)
S12	11	S11 AND PY=1978:1999
S13	228412	(EQUATE? OR EQUATING OR CORRESPOND? OR RECOGNI? OR IDENT? - OR SQUARE? OR SQUARING OR MATE? ? OR ALIGN?) (5N)(UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
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